

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

Date/Time June 17, 2004

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Agency CDPHE

Purpose of Contact Survey Unit 19 Disposition

Discussion

In accordance with the 776/777 DOP, Appendix I, the preparation of the facility for demolition is conducted in consultation with the CDPHE and is based on a series of decisions primarily related to maintaining releases to the environment and doses to the workers as low as reasonably achievable (ALARA) This contact record documents the activities that were conducted to prepare Survey unit 19 for demolition Survey unit 19 consists of room 430

The preparation process for Survey unit 19 was initiated January 8, 2004 when a package for in-process radiological surveys was prepared and executed Once the surveys were complete, the following actions were taken as part of the ALARA-based decontamination effort

- Concrete shaving was performed on all floor surfaces
- Upon completion of the shaving effort, approximately 150 linear feet of hot spots were remediated on the floor
- Twenty (20) column expansion joints were remediated by manual chipping and removal of the hot spots
- Twenty-four (24) columns were remediated by manual chipping and removal of the hot spots
- Six (6) rows of block were removed from the top of Wall 776019-1, Section C
- Eleven (11) rows of block were removed from the top of Wall 776019-2 Section C (Opposite of Wall 20-6)
- Several small sections of block were removed from the upper section of Wall 776019, Sections A and B
- Approximately thirteen (13) rows of block was removed from the upper west corner of Wall 776014, Section D
- Eight (8) rows of block were removed from the top of Wall 776019-5

- The tops of ceiling I-beams were decontaminated

The area was resurveyed in accordance with the Radiological Pre-Demolition Survey Plan for Buildings 776/777. The surveys were provided to the CDPHE project representative, and a walk down of the area was conducted.

In addition to the radiological hazards, the non-radiological hazards have also been addressed in Survey unit 19. The following summarizes the non-radiological activities:

- Room 430 contained RCRA Container Storage Unit 777.1. The room also provided RCRA secondary containment for mixed residue piping, and was closed as part of Set 82 under the Building 776/777 DOP. The map provided with the Set 82 closure plan in Appendix H of the DOP shows the floor locations requiring closure. These areas were washed and rinsed and the results provided to CDPHE on March 10, 2004. Approval for contingent closure was received on June 17, 2004.
- Chemicals and hazardous substances have been removed.
- Beryllium regulated and controlled areas have been closed. Survey Unit 19 covers the south half of room 430. The historical record indicates that beryllium parts were machined inside gloveboxes in Room 430. Sampling conducted in March 2001 found surface removable levels of $0.1 \text{ ug}/100 \text{ cm}^2$ in the southeast corner of the room. The source of the beryllium contamination was two B-boxes used in parts recycling. The area was decontaminated and re-sampled with all samples collected being below the analytical detection limit of $0.1 \text{ ug}/100 \text{ cm}^2$. Since the baseline survey, the rooms have been stripped of all equipment. The final beryllium surveys for this area were collected on May 18, 2004. All samples collected were below the reporting limit of $0.1 \text{ ug}/100 \text{ cm}^2$.
- Polychlorinated biphenyls (PCB) hazards and equipment have been removed.
- Asbestos has been abated.

Based on the survey results and the principles of ALARA, the risks (industrial and radiological) to the workers are greater than the benefit in source term reduction that would be gained through additional decontamination. The state project representative agrees that decontamination inside Survey unit 19 has progressed to the point of reasonably achievable removal and that the subsequent step of encapsulation is appropriate.

In summary, ALARA-based decontamination has been completed, Survey unit 19 will be encapsulated and surveyed for removable contamination, and controls will be applied during demolition. This contact record will be included as an appendix to the characterization report for Survey unit 19.

Contact Record Prepared By Dyan Foss

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